A METHOD FOR CREATING PATH-SENSITIVE BRANCH REGISTRY FOR CYCLIC DISTRIBUTED TRANSACTIONS

ABSTRACT OF THE DISCLOSURE

An exemplary embodiment of the invention is a method for providing a path-sensitive branch registry for cyclic distributed transactions. This method requires that a superior node's transaction manager (TM) identify itself as the root followed by sending the syncpoint cue to at least one subordinate node. Before sending the syncpoint cues to the subordinate the superior links the inbound messages with its specific branch qualifier (BQUAL) as well as a global transaction identifier (GTRID). The TM of each subordinate node receives syncpoint cues and is responsible for knowing who its superior is. In addition, the TM is responsible for recognizing the flow of branch instructions and guarantee that it uses a network-wide unique value for the branch values it generates for a given global transaction. With the recognition of the flow from the superior node the subordinate TM updates the node registry as to the inbound and outbound flow of branch messages by its superior and its subordinates.